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PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

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Date of mailing (day/month/year)
14 September 2006 (14.09.2006)

Applicant's or agent's file reference F1348P-WO

International application No. PCT/JP2004/019405

IMPORTANT NOTIFICATION

International filing date (day/month/year)
24 December 2004 (24.12.2004)

Applicant

NIPPON STEEL CORPORATION et al

	Transmittal	of the	translation	to	the applicant.
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The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

EP, KR

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

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3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

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Form PCT/IB/338 (January 2004)

PATENT COOPERATION TREATY

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference F1348P-WO FOR FURTH			FOR FURTHER	ACTION	See Form PCT/IPEA/416	
International	application No.		International filing d	ate (day/month/year)	Priority date (day/month/vear)	
			24.12.200		24.12.2003	
			onal classification and			
G05B1						
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Applicant NIPPO	N STEEL C	ORPORAT	TION			
l. Th	is report is the inter der Article 35 and tra	national prelin	ninary examination re e applicant according	eport, established by this to Article 36.	s International Preliminary Examining Authority	
2. Th	is REPORT consists	of a total of _	4	sheets, includi	ing this cover sheet.	
3. Th	is report is also acco	mpanied by Al	NNEXES, comprising	:		
a.	(sent to the	applicant and	to the International B	ureau) a total of	sheets, as follows:	
	sheets sheets	of the descript	tion, claims and/or dr	awings which have been	amended and are the basis for this report and/or tule 70.16 and Section 607 of the Administrative	
Instructions). sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))						
				(
	related thereto Section 802 o	o, in computer f the Administr	readable form only, ative Instructions).	as indicated in the Suppl	, containing a sequence listing and/or tables lemental Box Relating to Sequence Listing (see	
4. Thi	s report contains ind	lications relation	ig to the following ite	ms:		
$oxed{oxed}$	Box No. I	Basis of the	_			
	Box No. II	Priority				
	Box No. III	Non-establis	hment of opinion with	n regard to novelty, inver	ntive step and industrial applicability	
	Box No. IV		y of invention		•	
\boxtimes	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
	Box No. VI	Certain docu	ments cited			
	Box No. VII	Certain defe	cts in the international	application		
	Box No. VIII	Certain obse	rvations on the intern	ational application		
Date of subm	ission of the demand	d		Date of completion of t	his report	
				· · · · · · · · · · · · · · · · · · ·		
Name and mailing address of the IPEA/JP			-	Authorized officer		
Facsimile No.				Telephone No.		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/019405

Box No. I Basis of the report With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of: international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.4) international preliminary examination (Rule 55.2 and/or 55.3) With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the international application as originally filed/furnished the description: pages as originally filed/furnished received by this Authority on received by this Authority on nos. as originally filed/furnished as amended (together with any statement) under Article 19 ______ received by this Authority on received by this Authority on the drawings: sheet s _____as originally filed/furnished received by this Authority on sheets* received by this Authority on a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing. The amendments have resulted in the cancellation of: the description, pages the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify): This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)). the description, pages the claims, nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify): If item 4 applies, some or all of those sheets may be marked "superseded."

International application No.
PCT/JP2004/019405

	citations and expla	nt under A1 <u>an</u> ations suj	ricle 35(2) with regard to novelty, inventive step or industrial applicability; poorting such statement	
l.	Statement			
	Novelty (N)		5, 7, 9-11 1-4, 6, 8, 12-46	YES
	Inventive step (IS)	Claims Claims	5, 7, 9-11 1-4, 6, 8, 12-46	NO YES
	Industrial applicability (IA)	Claims Claims	1-46	YES NO

2. Citations and explanations (Rule 70.7)

Document 1: JP 2002-373018 A (NTN Corp.), 26 December 2002, claims

Document 2: JP 2002-229635 A (Nippon Steel Corp.), 16
August 2002, claims

Claims 1 to 4, 6, 8 and 12 to 46

Documents 1 to 2 cited in the international search report both disclose a device for creating manufacturing/distribution schedules, which is equipped with a mathematical model storage device and an optimization calculation device.

Thus, the inventions set forth in the abovementioned claims are disclosed in documents 1 to 2; consequently, the inventions in question lack novelty and do not involve an inventive step.

Claims 5, 7 and 9 to 11

The optimization process that is carried out in the device for creating manufacturing/distribution schedules, wherein the feedback gain is calculated, an operation vector is determined from the feedback gain and state vectors that express the state of the progress of a process, and then each product within the abovementioned

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/0.19405

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

operation vector is arranged in a product sequence that gives a positive manipulated variable in order to move as many products as can be moved, is not disclosed in any of the documents that are cited in the international search report, and would not have been obvious to a person skilled in the art.